

## **Solaris Licensing for All Sun SPARC Platforms and x86 Systems**

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## ***Solaris 2.5.1 Operating Environment:***

Effective April 16, 1996, Sun announced the latest release of the Solaris operating system, Solaris 2.5.1, supporting all currently–shipping Sun SPARC platforms.

Solaris 2.5.1 delivers support for UltraSPARC desktops and servers by offering enhancements that fully optimize the UltraSPARC multiprocessor’s capabilities in CPU, memory, and I/O. It is also binary compatible, enabling existing 2.x applications to run unmodified on Solaris 2.5.1.

With the Solaris 2.5 release, Solaris no longer provides support for the following products: all Sun4 platforms (4/1xx, 4/2xx, 4/3xx, 4/4xx); all Sun4e platforms; GS and GT frame buffers.

New features of Solaris 2.5.1 include the following:

- Solaris 2.5.1 optimizes the powerful CPU, memory, and I/O configurations of the new Ultra server family, including hot–plug and environmental support.
- 64–bit kernel asynchronous I/O provides added performance in situations using large databases.
- Extensions to User ID (UID)/Group ID (GID) enable extended data types from 16–bit to 32–bit. The maximum number of UIDs has been raised to over 2 billion, useful to large installations.

Key new productivity tools copackaged with Solaris Desktops:

- Common Desktop Environment (CDE) provides users with a common look and feel across all major UNIX desktops. CDE 1.0.2 is fully integrated with Solaris, allowing drag–and–drop between files and transparent access to network resources. Version 1.0.2 includes an updated install script.
- Wabi 2.2 enables Solaris users to run productivity software from Lotus and Microsoft easily, while integrating these applications into their Solaris environment. This updated version of Wabi brings better performance by eliminating the emulation on Intel platforms.
- Energy Star 2.5.1 is a power management tool enabling full suspend/resume support, which is useful in today’s energy–conscious environments.

Key new Enterprise functionality copackaged with Solaris Server:

- Solstice SyMON is a new GUI–based system monitoring tool for UltraSPARC servers that enables users to easily monitor and status of a system either remotely or on–site.
- Solstice AdminSuite 2.2 provides large UID support, along with a full set of configuration management capabilities using a GUI.
- Solstice Backup 4.2 (Single Server) utilities have been tuned for UltraSPARC support. Note that this version of Backup provides basic capability – customers needing more extensive capabilities should order one of the unbundled Solstice Backup Server or Network editions.
- SunVTS 2.0 provides multiple diagnostic testing tools, which are used to verify system configurations. This enhanced version, with a user–friendly interface, offers simplified remote diagnostics capability and an easier SunVTS startup procedure.

As in the previous release, 2.5.1 also includes the following copackaged products for servers:

- Solstice DiskSuite 4.0
- SolarNet PC Protocol Services 1.1 (IPX/SPX stack)
- NS Kit 1.2
- System Administrator’s AnswerBook

## ***Solaris 2.5.1 Operating Environment (continued):***

All Solaris 2.5 releases are available through release-specific part numbers (see Solaris 2.x Order Information).

SunService contract customers will be sent Solaris 2.5.1 upon request. Customers not under contract may purchase a Solaris version Upgrade License and the appropriate Solaris Media Kit. These are available as separate line items (see Solaris 2.x Order Information) and the Sun Microsystems Computer Co. Price Book.

The contents of the various Solaris 2.x media kits are:

- ***Desktop Media Kit*** – [1] ***2.5.1 CD*** – SunOS, ONC+, NFS, ToolTalk, NIS+, Desktop AdminTool, JumpStart, CacheFS, OpenWindows, DeskSet, and the on-line version of the End User AnswerBook documentation; [2] ***SMCC Solaris 2.5.1 Update CD*** – SyMON 1.0, Energy Star 2.5.1, SunVTS 2.0 diagnostic tool, and the SMCC AnswerBook on-line documentation; [3] ***Solaris Desktop 1.1 CD*** – Wabi 2.2, CDE 1.0.2 plus CDE AnswerBook, and Open Database Connectivity (ODBC) Driver Manager; [4] ***Installation documentation*** in hard copy form for desktop users, plus reference materials for OpenWindows and CDE; and [5] Solaris 2.5.1 Binary Code License and Wabi license agreement.
- ***Server Media Kit*** – [1] All CDs and documentation included in the ***Desktop Media Kit***; [2] ***Solaris Server Supplement CD*** – SolarNet PC Protocol Services 1.1 (IPX/SPX stack), NIS Kit 1.2, System Administrator's AnswerBook on-line documentation; [3] ***Solstice AdminSuite CD*** – Solstice AdminSuite 2.2, Solstice Print Manager, and Solstice AnswerBook on-line documentation; [4] ***Solstice DiskSuite 4.0 CD***; [5] ***Solstice Backup 4.2*** (single server version); [6] ***Installation documentation*** in hard copy form for system administrators; and [7] Solaris 2.5.1 Binary Code License, Wabi license agreement, and Solstice Single Server Backup License.

AnswerBook online documentation has been split up and is bundled with the Solaris 2.x Media Kits as follows:

- ***End User Online AnswerBook*** – resides on the Solaris 2.x CD-ROM that ships with the Solaris Desktop and Server Media Kits.
- ***System Administrator Online AnswerBook*** – is bundled with the Solaris Server Media Kit and is also available as an unbundled product.
- ***Developer Online AnswerBook*** – is bundled with the Solaris Software Developer's Kit (SDK).

The following hard copy documentation sets are available for Solaris 2.5.1:

- ***End User Documentation Set*** – Contains hard copies of all manuals located in the End User AnswerBook, plus CDE user documents. Available in all ten Solaris languages.
- ***Full Documentation Set*** – Packages together hard copies of End User AnswerBook, System Administrator's AnswerBook, Solaris Reference AnswerBook, SMCC AnswerBook, Software Developers Kit AnswerBook, and documentation sets for the following products: XIL, IGL, Solstice DiskSuite, Solstice Backup, and the Software Developers Kit. The Full Documentation Set is available worldwide in English only.

## ***Solaris 2.5.1 Licensing – General Information:***

The following are highlights intended to help give a general understanding of Solaris licensing:

- Two criteria are used to determine what type of license is required: (1) desktop vs. server use, and (2) number of processors.
- Effective August 30, 1993, the Solaris Desktop definition has been expanded to better reflect Sun's client/server and peer-to-peer paradigms (see Desktop License definition below). The changes especially address the question of when a desktop system is considered an NFS server. This determination is based upon the *primary use* of the desktop system.
- The *primary use* definition only applies to desktop SPARCstation systems. All SPARCserver systems are considered server systems and ship with a server license.
- All Sun servers ship licensed to service an unlimited number of users under Solaris 2.x.
- An upgrade license is required for licensing Desktop systems as Servers. See the "Solaris Server System Upgrade Licenses" section for more information.
- Additional Solaris licensing capabilities added to a system will be automatically covered under SunSpectrum at no extra charge.
- The Solaris license is NOT transferred when the system or system board is resold without authorization from Sun.
- The date of shipment of the system or board determines the Solaris release levels for which it is licensed.

### License Definitions:

- **Solaris Desktop License** – allows two direct connections, two continuous network connections and additional intermittent network connections to run Solaris on a system or board. It also permits the system to be used as an NIS or print server.
- **Solaris Server License** – allows an unlimited number of users to utilize the services of Solaris on one server system.

## ***Solaris 2.5.1 Licensing – General Information (continued):***

***When is a server license required for a desktop system?*** – For each system under consideration, if the answer to any of the following questions is “yes”, a server license is required. Otherwise, a desktop license is sufficient.

- The *primary use* is as a server? Systems functioning solely as printer servers and/or NIS (naming services) servers do not count as servers.
- Exports more filesystems than it imports?
- Provides swap disk space for any other systems?
- Provides home directory space for any other systems?
- Provides boot binaries for any other systems?
- Provides compute services for more than two continuous users (distinct user IDs)?
- Provides database services for more than two continuous users (distinct user IDs)?
- More than two users are directly connected, including the person sitting at the workstation (distinct user IDs)?
- More than two continuous network-based users (distinct user IDs) are connected, including rlogins, telnets, xhosts, and X-terminals? Intermittent connections by more than two users don't require a server license.

## ***Solaris Server “System Upgrade” Licenses***

There are 3 types of Desktop-to-Server upgrade licenses. Simply purchase the appropriate license based on the number of processors (1, 2 or 4) in the desktop system.

## ***Solaris Version Upgrades***

One set of upgrades allows upgrading from any previous version of Solaris 1.x or 2.x to the most current version of Solaris 2.x

Systems covered under support contracts will receive upgrades to the most current Solaris 2.x at no additional charge, either automatically or upon request.

## Order Information – Solaris 2.x

Solaris 2.5.1 is the default version of Solaris 2.x effective May 28, 1996. Release-specific part numbers are shown below where available.

<i>Option</i>	<i>Description</i>	<i>List Price</i>	<i>Discount Category</i>
DDK-2.5.1-P	Driver Developer Kit. Includes CD-ROM media, online documentation and single user license.	\$195	B
SDK-2.5.1-P SDK-2.4-P	Software Developer's Kit. Includes CD-ROM media, documentation and single user license.	\$495	B
SDK-2.5.1-P10 SDK-2.4-P10	Software Developer's Kit. Includes CD-ROM media, documentation and 10-user license.	\$3,950	B
SOL-D SOL-2.5MAY96-D	Solaris 2.x full hard copy documentation set with binders (no media).	\$1,195	B
SOL-ED SOL-2.5-ED	Solaris 2.x hard copy end user documentation (no media).	\$100	B
SOLD-C SOLD-2.5MAY96 SOLD-2.5JAN96 SOLD-2.5NOV95 SOLD-2.4FEB95	Desktop Media Kit (no Solaris license) for new systems only. Includes Solaris 2.x CD with end user online documentation, and a hard copy version of a simplified Basic Installation Guide.	\$75	A
SOLD-LU	Desktop "Per Incident Software Upgrade" License – Solaris 1.x or 2.x to current Solaris 2.x (no media or documentation).	\$250	A
SOLD-S-LU	Solaris Uniprocessor Desktop to Server License Upgrade for Solaris 2.x and 1.x. (no media or documentation)	\$1,500	A
SOLD2-S-LU	Solaris Dual Processor Desktop to Server License Upgrade for Solaris 2.x and 1.x. (no media or documentation)	\$3,000	A
SOLD4-S-LU	Solaris Four-Processor Desktop to Server License Upgrade for Solaris 2.x and 1.x. (no media or documentation)	\$6,000	A
SOLE-P SOLE-2.5MAY96-P SOLE-2.5-P SOLE-2.4-P	Solaris 2.x Encryption Kit. Includes CD-ROM media, documentation and single system license. For U.S. use only.	\$100	A
SOLES-LU	5+ Processor Server "Per Incident Software Upgrade" License – Solaris 1.x or 2.x to current Solaris 2.x (no media or documentation)	\$1,750	A
SOLS-C SOLS-2.5MAY96 SOLS-2.5JAN96 SOLS-2.5NOV95 SOLS-2.4FEB95	Solaris 2.x Server Media Kit for new systems only. Contains all contents of Desktop Media Kit (SOLD-C) along with more sophisticated documentation and installation guides to support installation over the network. Includes a System Administration AnswerBook CD-ROM disk. <b><i>NOTE: To order this product, customer must have at least one system licensed as a Solaris 2 server.</i></b>	\$100	A

### ***Order Information – Solaris 2.x (continued)***

<b><i>Option</i></b>	<b><i>Description</i></b>	<b><i>List Price</i></b>	<b><i>Discount Category</i></b>
SOLS–C10 SOLS–2.5MAY96–C10 SOLS–2.5JAN96–C10 SOLS–2.5NOV95–C10 SOLS–2.4FEB95–10	Solaris 2.x Server Media Kit – 10 Pack	\$400	A
SOLSA–P SOLSA–2.5.1–P	System Administrator AnswerBook online documentation. Includes CD–ROM media, single user license and documentation.	\$225	A
SOLWS–LU	1–4 Processor Server “Per Incident Software Upgrade” License – Solaris 1.x or 2.x to current Solaris 2.x (no media or documentation)	\$595	A

### ***Order Information – Solaris Internet Access PlusPack***

The Internet Access PlusPack is a suite of tools for Internet users of the Solaris Operating Environment. It runs on Solaris 2.4 or 2.5 (and higher) and is fully compatible with the Solaris Common Desktop Environment (CDE) and OpenWindows graphical user interfaces.

The Solaris Internet Access PlusPack includes: Netscape Navigator Gold for browsing the World Wide Web and for constructing HTML pages; Sun’s Java Virtual Machine for running Java applets from within Solaris rather than a browser; Java–Based Desktop Browser for viewing Java applets and HTML files, and browsing the Web; Video and Audio Tools for playing audio and video files; and Network Wrappers to give CDE and OpenWindows users easy access to Solaris FTP and Telnet capabilities.

In support of these Internet tools, Sun has developed the Internet Access PlusPack Web Site (<http://www.sun.com/solaris/products>) to provide additional product information, answers to frequently asked questions (FAQs), online support, discussion group email lists, and information about Java and Java applet access.

<b><i>Option</i></b>	<b><i>Description</i></b>	<b><i>List Price</i></b>	<b><i>Discount Category</i></b>
IAPP–2.0–P	Solaris Internet Access PlusPack Bundle. <b><i>NOTE: This X–option bundle is available at no charge <u>only</u> when this part number appears on the same purchase order as a SPARC or UltraSPARC Desktop System.</i></b>	N/C	–
IAPP–2.0–PACK	Solaris Internet Access PlusPack Bundle	\$99	B

### ***Order Information – Motif Developers Toolkit for Solaris 2.2 and 2.3***

<b><i>Option</i></b>	<b><i>Description</i></b>	<b><i>List Price</i></b>	<b><i>Discount Category</i></b>
MOT-P	Motif 1.2.2 Toolkit, CD-ROM media, user guide and user license for all SPARC-systems (single user pack). No hard copy documentation.	\$295	N/D
MOT-D	Motif 1.2.2 Toolkit documentation set (no media)	\$150	N/D

### ***Order Information – Solaris 2.x for x86 Platforms***

Solaris 2.5, Hardware: 1/96 is the default version of Solaris 2.x for x86. Release-specific part numbers are shown below where available.

<b><i>Option</i></b>	<b><i>Description</i></b>	<b><i>List Price</i></b>	<b><i>Discount Category</i></b>
ISOL-D-B ISOL-2.4-D-B	x86 Desktop Media and Documentation (single set, no licenses).	\$75	N/D
ISOL-D-P ISOL-2.4-D-P	x86 Desktop Media, license and documentation.	\$695	N/D
ISOL-D-P100 ISOL-2.4-D-P100	x86 Desktop 100 pack. Includes 100 licenses, single CD-ROM media and documentation.	\$27,500	N/D
ISOL-US-P	x86 Workgroup Server Kit. Includes CD-ROM media, user license and documentation.	\$2,295	N/D
ISOL-2.4-US-P	Solaris 2.4 x86 Workgroup Server Kit. Includes CD-ROM media, user license and documentation.	\$1,795	N/D
ISOL-D-P-UPG	Solaris 2.x x86 to current Solaris 2.x x86 Desktop Upgrade	\$190	N/D
ISOL-US-P-UPG	Solaris 2.x x86 to current Solaris 2.x x86 Workgroup Server Upgrade	\$545	N/D
ISOL-P-UG	Processor Upgrade License	\$1,395	N/D
SOL-ED	Solaris 2.x hard copy End User Documentation (no media)	\$100	B
SOL-D	Solaris 2.x hard copy Full Manual Set (no media)	\$1,195	B
SOLSA-P	Solaris 2.x System Administrator AnswerBook Online Documentation	\$225	A



## ***Solaris 1.x (Solaris 1.1.2) – General Information:***

The following are Solaris 1.x (Solaris 1.1.2) product highlights:

- Solaris 1.1.2 is the default Solaris 1.x release as of November 8, 1994.
- Solaris 1.1.2 replaces the earlier Solaris 1.1.1 Version B release.
- Solaris 1.1.2 supports the SPARCstation 4 and all platforms that were supported with the 1.1.1 Version B release: ELC, IPC, IPX, SPARCstation 2, SPARCclassic, LX, 600MP Models 120 and 140, and SPARCstation 10 and SPARCstation 20 uniprocessor systems.
- Solaris 1.1.2 supports SPARCstation 5 and SPARCstation 20 uniprocessor systems in TurboGX and TurboGXplus configurations only.
- Solaris 1.1.2 maintains full binary compatibility with previous 1.x releases.
- Customers wishing to purchase Solaris 1.1.1 Version B can do so by using product-specific part numbers.
- Customers should strongly consider moving from Solaris 1.1.1 Version B, as the number of bug fixes integrated into the OS reduces system installation time and provides a more stable operating environment.
- U.S. customers with a software support contract using Solaris 1.x can request the 1.1.2 release and it will be sent to them at no charge. Non-contract customers will be required to pay a 1.x to current release upgrade fee.
- SPARCstation 5 systems bundle a Solaris 2.x license only. Customers wishing to run 1.x on these systems must order a Solaris 1.x license and media separately (SC-P or SC-L).
- The 1.x AnswerBook CD currently available for Solaris 1.1.1 Version B can be used with the 1.1.2 release. The 1.1.2 release-specific information is only available in hard copy.
- Earlier releases of the encryption kit for Solaris 1.1.1 Version B and 4.1.3 are not supported with 1.1.2. Customers using 1.1.2 must use the encryption kit released for 1.1.2.

### ***Order Information – Solaris 1.x (Solaris 1.1.2)***

<b><i>Option</i></b>	<b><i>Description</i></b>	<b><i>List Price</i></b>	<b><i>Discount Category</i></b>
SX-21	Solaris 1.x (CD-ROM media only) for all SPARCsystems	\$200	A
SC-P	Solaris 1.x CD-ROM media and single system license for SPARCstation 4, SPARCstation 5 and SPARCstation 20 only	\$200	N/D
SC-L	Solaris 1.x single system license (no media) for SPARCstation 4, SPARCstation 5 and SPARCstation 20 only	\$175	N/D
SS-23	Solaris 1.x AnswerBook online documentation (CD-ROM media, single system license and documentation) for all SPARCsystems	\$495	A
SX-09	Solaris 1.x full manual set with binders (no media)	\$1,295	B

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